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1 Research track paper: Web object indexing using domain knowledge

Muyuan Wang, Zhiwei Li, Lie Lu, Wei-Ying Ma, Naiyao Zhang

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, index terms

A web object is defined to represent any meaningful object embedded in web pages (e.g. images, music) or pointed to by hyperlinks (e.g. downloadable files). In many cases, users would like to search for information of a certain 'object', rather than a web page containing the query terms. To facilitate web object searching and organizing, in this paper, we propose a novel approach to web object indexing, by discovering its inherent structure information with existed domain knowledge. In our appro ...

Keywords: confidence propagation, domain knowledge, indexing, information retrieval, latent semantic indexing, link analysis, music indexing, web object

2 A multimodel methodology for qualitative model engineering

Paul A. Fishwick, Bernard P. Zeigler

January 1992 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(1.93 MB) Additional Information: full citation, abstract, references, citings, index terms

Qualitative models arising in artificial intelligence domain often concern real systems that are difficult to represent with traditional means. However, some promise for dealing with such systems is offered by research in simulation methodology. Such research produces models that combine both continuous and discrete-event formalisms. Nevertheless, the aims and approaches of the AI and the simulation communities remain rather mutually ill understood. Consequently, there is a need to bridge t ...

Keywords: abstraction levels, combined simulation, homomorphism, multimodeling, qualitative simulation, systems theory

3 Research track: Learning relational probability trees

Jennifer Neville, David Jensen, Lisa Friedland, Michael Hay
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: pdf(410.76 KB) Additional Information: full citation, abstract, references, citings

Classification trees are widely used in the machine learning and data mining communities for modeling propositional data. Recent work has extended this basic paradigm to probability estimation trees. Traditional tree learning algorithms assume that instances in the training data are homogenous and independently distributed. Relational probability trees (RPTs) extend standard probability estimation trees to a relational setting in which data instances are heterogeneous and interdependent. Our alg ...

4 An example of management training in expert systems: SBA loan evaluation system
Sudesh M. Duggal, Paul R. Popovich
September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**
Publisher: ACM Press
Full text available: pdf(2.19 MB) Additional Information: full citation, references, index terms

5 Industry/government track paper: Using relational knowledge discovery to prevent securities fraud
Jennifer Neville, Özgür Şimşek, David Jensen, John Komoroske, Kelly Palmer, Henry Goldberg
August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**
Publisher: ACM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, index terms

We describe an application of relational knowledge discovery to a key regulatory mission of the National Association of Securities Dealers (NASD). NASD is the world's largest private-sector securities regulator, with responsibility for preventing and discovering misconduct among securities brokers. Our goal was to help focus NASD's limited regulatory resources on the brokers who are most likely to engage in securities violations. Using statistical relational learning algorithms, we developed mod ...

Keywords: fraud detection, relational probability trees, statistical relational learning

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1 Hierarchical classification of Web content

Susan Dumais, Hao Chen

July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper explores the use of hierarchical structure for classifying a large, heterogeneous collection of web content. The hierarchical structure is initially used to train different second-level classifiers. In the hierarchical case, a model is learned to distinguish a second-level category from other categories within the same top level. In the flat non-hierarchical case, a model distinguishes a second-level category from all other second-level categories. Scoring rules can further take ad ...

Keywords: Web hierarchies, classification, hierarchical models, machine learning, support vector machines, text catergorization, text classification

2 Magic Functions: In Memoriam: Bernard M. Dwork 1923--1998

Cynthia Dwork, Moni Naor, Omer Reingold, Larry Stockmeyer

November 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 6

Publisher: ACM Press

Full text available: pdf(708.05 KB) Additional Information: full citation, abstract, references, citings, index terms

We prove that three apparently unrelated fundamental problems in distributed computing, cryptography, and complexity theory, are essentially the same problem. These three problems and brief descriptions of them follow. (1) *The selective decommitment problem.* An adversary is given commitments to a collection of messages, and the adversary can ask for some subset of the commitments to be opened. The question is whether seeing the decommitments to these open plaintexts allows the adversary t ...

Keywords: Digital signature, Fiat-Shamir methodology, interactive argument, interactive proof system, magic function, selective decommitment, zero knowledge

3 Learning to distinguish PP arguments from adjuncts

Aline Villavicencio
August 2002 **proceeding of the 6th conference on Natural language learning - Volume 20 COLING-02**
Publisher: Association for Computational Linguistics
Full text available: pdf(158.75 KB) Additional Information: full citation, abstract, references

Words differ in the subcategorisation frames in which they occur, and there is a strong correlation between the semantic arguments of a given word and its subcategorisation frame, so that all its arguments should be included in its subcategorisation frame. One problem is posed by the ambiguity between locative prepositional phrases as arguments of a verb or adjuncts. As the semantics for the verb is the same in both cases, it is difficult to differentiate them, and to learn the appropriate subca ...

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Yin-Ling Cheung; Ada Wai-Chee Fu;
Knowledge and Data Engineering, IEEE Transactions on
Volume 16, Issue 9, Sept. 2004 Page(s):1052 - 1069
Digital Object Identifier 10.1109/TKDE.2004.44
AbstractPlus | References | Full Text: PDF(2488 KB) IEEE JNL
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2. **Using fuzzy support and confidence setting to mine interesting associati**
Yo-Ping Huang; Li-Jen Kao;
Fuzzy Information, 2004. Processing NAFIPS '04. IEEE Annual Meeting of the
Volume 2, 27-30 June 2004 Page(s):514 - 519 Vol.2
Digital Object Identifier 10.1109/NAFIPS.2004.1337353
AbstractPlus | Full Text: PDF(527 KB) IEEE CNF
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3. **On-line profile replication for hierarchical mobility management in PCS n**
Qing Tian; Cox, D.C.;
INFOCOM 2002. Twenty-First Annual Joint Conference of the IEEE Computer Communications Societies. Proceedings. IEEE
Volume 3, 23-27 June 2002 Page(s):1288 - 1297 vol.3
Digital Object Identifier 10.1109/INFCOM.2002.1019379
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4. **Classification with degree of membership: a fuzzy approach**
Wai-Ho Au; Chan, K.C.C.;
Data Mining, 2001. ICDM 2001, Proceedings IEEE International Conference o
29 Nov.-2 Dec. 2001 Page(s):35 - 42
Digital Object Identifier 10.1109/ICDM.2001.989498
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5. **Designing an OOTW decision support system for military planners**
Ezell, B.C.; Parnell, G.S.; Hamies, Y.Y.; Lambert, J.H.;
Systems, Man, and Cybernetics, 2000 IEEE International Conference on
Volume 1, 8-11 Oct. 2000 Page(s):495 - 499 vol.1
Digital Object Identifier 10.1109/ICSMC.2000.885041

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Cook, D.J.; Holder, L.B.; Su, S.; Maglothin, R.; Jonyer, I.;
Engineering in Medicine and Biology Magazine, IEEE
Volume 20, Issue 4, July-Aug. 2001 Page(s):67 - 74
Digital Object Identifier 10.1109/51.940050
AbstractPlus | References | Full Text: PDF(380 KB) **IEEE JNL**
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2. **Classification with degree of membership: a fuzzy approach**
Wai-Ho Au; Chan, K.C.C.;
Data Mining, 2001. ICDM 2001, Proceedings IEEE International Conference o
29 Nov.-2 Dec. 2001 Page(s):35 - 42
Digital Object Identifier 10.1109/ICDM.2001.989498
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Ezell, B.C.; Parnell, G.S.; Hamies, Y.Y.; Lambert, J.H.;
Systems, Man, and Cybernetics, 2000 IEEE International Conference on
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Knowledge-Based Software Engineering Conference, 1995 .Proceedings., 10t
12-15 Nov. 1995 Page(s):19 - 26
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